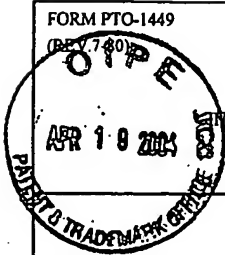


FORM PTO-1449 (REV. 7-80)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. 660088.443C1	APPLICATION NO. 10/763,398
INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)		APPLICANTS Christen M. Anderson et al.	
		FILING DATE January 23, 2004	GROUP ART UNIT



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*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
/RN/	AA	5,011,912	04/30/91	Hopp et al.	530	387	
	AB	2001/0044144	11/22/01	Anderson et al.	435	183	
	AC	2002/0177185	11/28/02	Anderson et al.	435	69.1	

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		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
	AD	0 130 074 A1	01/02/85	EP		
	AE	0 477 961 A2	04/01/92	EP		
	AF	0 723 018	07/24/96	EP		
	AG	0 770 610 A1	05/02/97	EP		
	AH	WO 98/19714	05/14/98	WIPO		

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	AI	Adams et al., "Complementary DNA Sequencing: Expressed Sequence Tags and Human Genome Project," <i>Science</i> 252:1651-1656, June 21, 1991.
	AJ	Adrian et al., "Sequences Required for Delivery and Localization of the ADP/ATP Translocator to the Mitochondrial Inner Membrane," <i>Molecular and Cellular Biology</i> 6(2):626-634, 1986.
	AK	Allgood and Eastman, "Chimeric Receptors as Gene Switches," <i>Curr. Opin. Biotechnol.</i> 8:474-479, August 1997
	AL	Aquila et al., "Complete Amino Acid Sequence of the ADP/ATP Carrier from Beef Heart Mitochondria," <i>Hoppe-Seyler's Z. Physiol. Chem.</i> 363:345-349, March 1982
	AM	Ashkenazi et al., "Protection Against Endotoxic Shock By A Tumor Necrosis Factor Receptor Immunoadhesin," <i>Proc. Natl. Acad. Sci. USA</i> 88:10535-10539, December 1991.
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	AO	Battini et al., "Molecular Cloning of a cDNA for a Human ADP/ATP Carrier Which is Growth-Regulated," <i>J. Biol. Chem.</i> 262(9):4355-4359, March 25, 1987.

EXAMINER: /Ronald Niebauer/

DATE CONSIDERED  
04/23/2007

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/RN/	BB	WO 9828415	07/02/98	WIPO			
	BC	WO 99/07845	02/18/99	WIPO			
	BD	WO 00/19200	04/06/00	WIPO			
	BE	WO 00/26370	05/11/00	WIPO			
	BF	WO 01/02598	01/11/01	WIPO			
	BG	WO 01/32876	05/10/01	WIPO			
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	BH	Beavis et al., "On the Regulation of K <sup>+</sup> Uniport in Intact Mitochondria by Adenine Nucleotides and Nucleotide Analogs," <i>J. Biol. Chem.</i> 268(2):997-1004, January 15, 1993.					
	BI	Beutner et al., "Complexes Between Porin, Hexokinase, Mitochondrial Creatine Kinase and Adenylate Translocator Display Properties of the Permeability Transition Pore. Implication for Regulation of Permeability Transition by the Kinases," <i>Biochim. Biophys. Acta</i> 1368:7-18, 1998.					
	BJ	Block et al., "Chemical Modifications and Active Site Labeling of the Mitochondrial ADP/ATP Carrier," <i>Methods in Enzymology</i> 125:658-670, 1986.					
	BK	Block et al., "Fluorescent Probes of the Mitochondrial ADP/ATP Carrier Protein," <i>Methods in Enzymology</i> 125: 639-649, 1986.					
	BL	Block et al., "Atractyloside and Bongkreic Acid Sites in the Mitochondrial ADP/ATP Carrier Protein," <i>FEBS Letters</i> 131(2):213-218, 1981.					
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FOREIGN PATENT DOCUMENTS								
		DOCUMENT NUMBER	DATE	COUNTRY			TRANSLATION YES NO	
	CB							
OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)								
/RN	CC	Boulay et al., "Photolabeling Approach to the Study of the Topography of the Atractyloside Binding Site in Mitochondrial Adenosine 5'-Diphosphate/Adenosine 5'-Triphosphate Carrier Protein," <i>Biochemistry</i> 22: 477-484, 1983.						
	CD	Boulay et al., "Synthesis and Properties of Fluorescent Derivatives of Atractyloside as Potential Probes on the Mitochondrial ADP/ATP Carrier Protein," <i>Analytical Biochemistry</i> 128:323-330, 1983.						
	CE	Brandolin et al, "Partial Purification of an Atractyloside-Binding Protein from Mitochondria," <i>FEBS Letters</i> 46(1):149-153, September 1974.						
	CF	Brandolin et al., "Substrate-Induced Modifications of the Intrinsic Fluorescence of the Isolated Adenine Nucleotide Carrier Protein: Demonstration of Distinct Conformational States," <i>Biochemistry</i> 24:1991-1997, 1985.						
	CG	Brustovetsky and Klingenberg, "Mitochondrial ADP/ATP Carrier Can Be Reversibly Converted Into a Large Channel by Ca <sup>2+</sup> ," <i>Biochemistry</i> 35:8483-8488, 1996.						
	CH	Brunelli and Pall, "A Series of Yeast Shuttle Vectors for Expression of cDNAs and Other DNA Sequences," <i>Yeast</i> 9: 1299-1308, 1993.						
	CI	Byrn et al., "Biological Properties of a CD4 Immunoaderhin," <i>Nature</i> 344(6267):667-673, April 12, 1990.						
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↓	CK	Chung, A. et al., "Transcriptional Control of Nuclear Genes for the Mitochondrial Muscle ADP/ATP Translocator and the ATP Synthase Beta Subunit. Multiple Factors Interact ith the OXBOX/REBOX Promoter Sequences," <i>J. Biol. Chem.</i> 267(29):21154-61, October 1992.						
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EB							
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/RN/	EC	Gottikh et al., "The General Synthetic Route to Amino Acid Esters of Nucleotides and Nucleoside-5'-Triphosphates and Some Properties of These Compounds," <i>Tetrahedron</i> 26:4419-4433, 1970.					
	ED	Graham et al., "A Mouse Model for Mitochondrial Myopathy and Cardiomyopathy Resulting From a Deficiency in a Heart/Muscle Isoform of the Adenine Nucleotide Translocator," <i>Nature Genetics</i> 16:226-234, July 1997.					
	EE	Green and Reed, "Mitochondria and Apoptosis," <i>Science</i> 281:1309-1312, August 28, 1998.					
	EF	Green, "Apoptotic Pathways: The Roads to Ruin," <i>Cell</i> 94:695-698, September 18, 1998.					
	EG	Guzman et al., "Tight Regulation, Modulation, and High-Level Expression by Vectors Containing the Arabinose P <sub>BAD</sub> Promotor," <i>J. Bacteriol.</i> 177(14):4121-4130, July 1995.					
	EH	Haldimann et al., "Use of New Methods for Construction of Tightly Regulated Arabinose and Rhamnose Promoter Fusions in Studies of the <i>Escherichia coli</i> Phosphate Regulon," <i>J. Bacteriol.</i> 180(5):1277-1286, March 1998.					
	EI	Halestrap et al., "Elucidating the molecular mechanism of the permeability transition pore and its role in reperfusion injury of the heart," <i>Biochim. Biophys. Acta.</i> 1366:79-94, 1998.					
	EJ	Halestrap et al., "Oxidative Stress, Thiol Reagents, and Membrane Potential Modulate the Mitochondrial Permeability Transition by Affecting Nucleotide Binding to the Adenine Nucleotide Translocase," <i>The J. of Biological Chemistry</i> 272(6):3346-3354, February 7, 1997.					
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						YES	NO
	FB						
<b>OTHER PRIOR ART</b> <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>							
/RN/	FC	Heimpel, S. et al., "Expression of the Mitochondrial ADP/ATP Carrier in Escherichia Coli. Renaturation, Reconstitution, and the Effect of Mutations on 10 Positive Residues," <i>J. Biol. Chem.</i> 276(15):11499-506, April 2001.					
	FD	Hopp et al., "A Short Polypeptide Marker Sequence Useful for Recombinant Protein Identification and Purification," <i>Bio/Technology</i> 6:1204-1210, October 1988.					
	FE	Ichas and Mazat, "From Calcium Signaling to Cell Death: Two Conformations for the Mitochondrial Permeability Transition Pore. Switching From Low- to High-Conductance State," <i>Biochimica et Biophysica Acta</i> 1366:33-50, 1998.					
	FF	Klingenberg "Dialectics in Carrier Research: The ADP/ATP Carrier and the Uncoupling Protein," <i>J. of Bioenergetics and Biomembranes</i> 25(5):447-457, 1993.					
	FG	Klingenberg et al., "Isolation of the ADP, ATP Carrier as the Carboxyatractylate Protein Complex from Mitochondria," <i>Biochimica et Biophysica Acta</i> 503:193-210, 1978.					
	FH	Klingenberg, "Principles of Carrier Catalysis Elucidated by Comparing Two Similar Membrane Translocators from Mitochondria, the ADP/ATP Carrier and the Upcoupling Protein," <i>Annals New York Academy of Sciences</i> 456:279-280, 1985.					
	FI	Klingenberg, "The ADP-ATP Translocation in Mitochondria, a Membrane Potential Controlled Transport," <i>J. Membrane Biol.</i> 56:97-105, 1980.					
	FJ	Kroemer et al., "The Mitochondrial Death/Life Regulator in Apoptosis and Necrosis," <i>Annu. Rev. Physiol.</i> 60:619-642, 1998.					
	FK	Kroemer et al., "The Biochemistry of Programmed Cell Death," <i>FASEB J.</i> 9:1277-87, October 1995.					
V	FL	Kroemer, "The Proto-Oncogene Bcl-2 and Its Role in Regulating Apoptosis," <i>Nature Medicine</i> 3(6):614-620, June 1997.					
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					YES	NO	
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<b>OTHER PRIOR ART</b> (Including Author, Title, Date, Pertinent Pages, Etc.)							
/RN/	GC	Ku et al., "The Human Fibroblast Adenine Nucleotide Translocator Gene: Molecular Cloning and Sequence," <i>The J. of Biological Chemistry</i> 265(27):16060-16063, September 1990.					
	GD	Lau and Chan, "Efflux of Adenine Nucleotides in Mitochondria from Rat Tumor Cells of Varying Growth Rates," <i>Cancer Research</i> 44:4458-4464, October 1984.					
	GE	Lauquin et al., "Aryl-Azido Atractylosides as Photoaffinity Labels for the Mitochondrial Adenine Nucleotide Carrier," <i>FEBS Letters</i> 67(3):306-311, September 1976.					
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	GG	Lauquin et al., "Isobongkreikic Acid, a New Inhibitor of Mitochondrial ADP-ATP Transport: Radioactive Labeling and Chemical and Biological Properties," <i>Biochemistry</i> 15(11):2323-2327, 1976.					
	GH	Le Saux, A. et al., "Conformational Changes of the Yeast Mitochondrial Adenosine Diphosphate/Adenosine Triphosphate Carrier Studied Through its Intrinsic Fluorescence. 1. Tryptophanyl Residues of the Carrier Can be Mutated Without Impairing Protein Activity," <i>Biochemistry</i> 35(50):16116-24, December 1996.					
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↓	GK	Liu et al., "Induction of Apoptotic Program in Cell-Free Extracts: Requirement for dATP and Cytochrome c," <i>Cell</i> 86:147-157, July 12, 1996.					
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						YES	NO
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/RN/	HC	Louvi and Tsitilou, "A cDNA Clone Encoding the ADP/ATP Translocase of <i>Drosophila Melanogaster</i> Shows a High Degree of Similarity with the Mammalian ADP/ATP Translocases," <i>J. Mol. Evol.</i> 35:44-50, 1992.					
	HD	Lunardi and Attardi, "Differential Regulation of Expression of the Multiple ADP/ATP Translocase Genes in Human Cells," <i>The J. of Biological Chemistry</i> 266(25):16534-16540, September 5, 1991.					
	HE	Lunardi et al., "The Multiple ADP/ATP Translocase Genes are Differentially Expressed During Human Muscle Development," <i>The J. of Biological Chemistry</i> 267(22):15267-15270, August 5, 1992.					
	HF	Lutz and Bujard, "Independent and Tight Regulation of Transcriptional Units in <i>Escherichia coli</i> Via the LacR/O, the TetT/O and AraC/I <sub>1</sub> -I <sub>2</sub> Regulatory Elements," <i>Nucleic Acids Research</i> 25(6):1203-1210, 1997.					
	HG	Marzo et al., "Bax and Adenine Nucleotide Translocator Cooperate in the Mitochondrial Control of Apoptosis" <i>Science</i> 281: 2027-2031, September 1998.					
	HH	Majima et al., "Binding of the Fluorescein Derivative Eosin Y to the Mitochondrial ADP/ATP Carrier: Characterization of the Adenine Nucleotide Binding Site," <i>Biochemistry</i> 37(1):424-432, January 6, 1998.					
	HI	Makrides, "Strategies for Achieving High-Level Expression of Genes in <i>Escherichia coli</i> ," <i>Microbiological Reviews</i> 60(3):512-538, 1996.					
	HJ	Mayer, "A New Set of Useful Cloning and Expression Vectors Derived From pBlueScript," <i>Gene</i> 163:41-46, 1995.					
↓	HK	Miroux, B. et al., "Over-Production of Proteins in <i>Escherichia coli</i> : Mutant Hosts that Allow Synthesis of Some Membrane Proteins and Globular Proteins at High Levels," <i>J. Mol. Biol.</i> 260(3):289-98, July 1996.					
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/RN/	IC	Murdock et al., "Up-Regulation of Nuclear and Mitochondrial Gene in the Skeletal Muscle of Mice Lacking the Heart/Muscle Isoform of the Adenine Nucleotide Translocator," <i>Journal of Biological Chemistry</i> 274(20):14429-14433, May 14, 1999.					
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	IG	O'Gorman et al., "Differential Effects of Creatine Depletion on the Regulation of Enzyme Activities and on Creatine-Stimulated Mitochondrial Respiration in Skeletal Muscle, Heart, and Brain," <i>Biochimica et Biophysica Acta</i> 1276:161-170, 1996.					
	IH	Obatomi and Bach, "Inhibition of Mitochondrial Respiration and Oxygen Uptake in Isolated Rat Renal Tubular Fragments by Atractyloside," <i>Toxicol. Lett.</i> 89:155-161, 1996.					
	II	Paradies et al., "Age-Dependent Decline in the Cytochrome c Oxidase Activity in Rat Heart Mitochondria: Role of Cardiolipin," <i>FEBS Letters</i> 406:136-138, 1997.					
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V	IK	Piozzi et al., "Struttura dell'atrattiloside," <i>Gazzetta Chimica Italiana</i> 97(6): 935-954, 1967. (English summary on page 936)					
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/RN/	JC	Piozzi et al., "Structure of Atroctyloside," Chemical Abstracts Acc. No. 517201, 1967.					
	JD	Plano et al., "Rickettsia Prowazekii and ATP/ADP Translocase, Analysis of Gene Fusions Encoding $\beta$ -Galactosidase- ATP/ADP Translocase Fusion Proteins," <i>Annals of the New York Academy of Sciences</i> 590: 397-407, 1990.					
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	JG	Rindinsbacher, L. et al., "Production of Human Secretory Component with Dimeric Iga Binding Capacity Using Viral Expression Systems," <i>J. Biol. Chem.</i> 270(23):14220-8, June 1995.					
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	JI	Rosenberg, <i>Protein Analysis and Purification: Benchtop Techniques</i> , Birkhauser, Boston, pp. 335-347, 1996.					
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↓	JK	Rück et al., "Reconstituted Adenine Nucleotide Translocase Forms a Channel for Small Molecules Comparable to the Mitochondrial Permeability Transition Pore," <i>FEBS Letters</i> 426(1):97-101, April 10, 1998.					
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FORM PTO-1449 (REV.7-80)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. 660088.443C1		APPLICATION NO. 10/763,398	
INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)				APPLICANTS Christen M. Anderson et al.			
				FILING DATE January 23, 2004		GROUP ART UNIT	
<b>U.S. PATENT DOCUMENTS</b>							
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	KA						
<b>FOREIGN PATENT DOCUMENTS</b>							
		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION		
					YES	NO	
	KB						
<b>OTHER PRIOR ART</b> (Including Author, Title, Date, Pertinent Pages, Etc.)							
/RN/	KC	Santi and Luciani, <i>Atractyloside/ Chemistry, Biochemistry and Toxicology</i> , Piccin Medical Books, Padova, Italy, 1978.					
	KD	Sheldon et al., "Strain-Related Brain Injury in Neonatal Mice Subjected to Hypoxia-Ischemia," <i>Brain Research</i> 810:114-122, 1998.					
	KE	Shinohara et al., "Isolation and Characterization of cDNA Clones and a Genomic Clone Encoding Rat Mitochondrial Adenine Nucleotide Translocator," <i>Biochimica et Biophysica Acta</i> 1152:192-196, 1993.					
	KF	Simbula et al., "Two Mechanisms by Which ATP Depletion Potentiates Induction of the Mitochondrial Permeability Transition," <i>American J. of Physiology</i> 273:479-488, 1997.					
	KG	Smagula and Douglas, "Mitochondrial Import of the ADP/ADP Carrier Protein in <i>Saccharomyces Cerevisiae</i> ," <i>Journal of Biological Chemistry</i> 263(14): 6783-6790, May 15, 1988.					
	KH	Stepien et al., "Differential Expression of Adenine Nucleotide Translocator Isoforms in Mammalian Tissues and During Muscle Cell Differentiation," <i>The J. of Biological Chemistry</i> 267(21):14592-14597, July 25, 1992.					
	KI	Sterling, "Direct Thyroid Hormone Activation of Mitochondria: The Role of Adenine Nucleotide Translocase," <i>Endocrinology</i> 119(1):292-295, 1986.					
	KJ	Stubbs, "Inhibitors of the Adenine Nucleotide Translocase," <i>Pharmac. Ther.</i> 7:329-349, 1979.					
	KK	Sul et al., "Comparison of the Adenine Nucleotide Translocase in Hepatomas and Rat Liver Mitochondria," <i>Biochimica et Biophysica Acta</i> 551:148-156, 1979.					
↓	KL	Tjaden et al. "Expression of a Plastidic ATP/ADP Transporter Gene in <i>Escherichia Coli</i> Leads to a Functional Adenine Nucleotide Transport System in the Bacterial Cytoplasmic Membrane," <i>Journal of Biological Chemistry</i> 273(16): 9630-9636, 1998.					
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LA						
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				YES	NO	
LB						
<b>OTHER PRIOR ART</b> (Including Author, Title, Date, Pertinent Pages, Etc.)						
/RN/	LC	Vignais et al., "Adenosine Diphosphate Translocation in Mitochondria. Nature of the Receptor Site for Carboxyatractyloside (Gummiferin)," <i>Biochemistry</i> 12(8): 1508-1519, 1973.				
	LD	Vignais et al., "[60] <sup>3</sup> H- or <sup>35</sup> S-Labeled Atractyloside and Carboxyatractyloside, Atractyloside Derivatives Used for Affinity Chromatography, Photoaffinity Labeling, and Spin Labeling, and <sup>3</sup> H- or <sup>14</sup> C-Labeled Bongkreic Acid," <i>Methods in Enzymology</i> 55:518-533, 1979.				
	LE	Vercesi et al., "The Role of Reactive Oxygen Species in Mitochondrial Permeability Transition," <i>Bioscience Reports</i> 17(1):43-51, 1997.				
	LF	Wallace et al., <i>Mitochondria &amp; Free Radicals in Neurodegenerative Diseases</i> , Beal, Howell and Bodis-Wollner, Eds., Wiley-Liss, New York, 1997, Chapter 13, "Mitochondrial Defects in Neurodegenerative Diseases," pp. 283-307.				
	LG	Wenzel-Seifert, K. et al., "Quantitative Analysis of Formyl Peptide Receptor Coupling to G(i)alpha(1), G(i)alpha(2), and G(i)alpha(3)," <i>J. Biol. Chem.</i> 274(47):33259-66, November 1999.				
	LH	Wilson et al., "The Structure of an Antigenic Determinant in a Protein," <i>Cell</i> 37(3):767-778, July 1984.				
	LI	Wilson, "Apoptosis: Unmasking the Executioner," <i>Cell Death and Differentiation</i> 5:646-652, 1998.				
V	LJ	Woldegiorgis and Shrago, "Adenine Nucleotide Translocase Activity and Sensitivity to Inhibitors in Hepatomas," <i>The J. of Biological Chemistry</i> 260(12):7585-7590, June 25, 1985.				
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					YES	NO	
	MF						
	MG						
	MH						
	MI						
	MJ						
<b>OTHER PRIOR ART</b> <small>(Including Author, Title, Date, Pertinent Pages, Etc.)</small>							
↓ /RN/	MK	Woodfield et al., "Direct Demonstration of a Specific Interaction Between Cyclophilin-D and the Adenine Nucleotide Translocase Confirms Their Role in the Mitochondrial Permeability Transition," <i>Biochem. J.</i> 336:287-290, 1998.					
	ML	Yan and Sohal, "Mitochondrial Adenine Nucleotide Translocase is Modified Oxidatively During Aging," <i>Proc. Natl. Acad. Sci. USA</i> 95:12896-12901, October 1998.					
	MM	Yasuda et al., "Regulation of Apoptosis by a <i>Caenorhabditis Elegans</i> BNIP3 Homolog," <i>Oncogene</i> 17(18):2525-2530, 1998.					
	MN	Zamzami et al., "Reduction in Mitochondrial Potential Constitutes an Early Irreversible Step of Programmed Lymphocyte Death in Vivo," <i>J. Exp. Med.</i> 181:1661-1672, May 1995.					
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